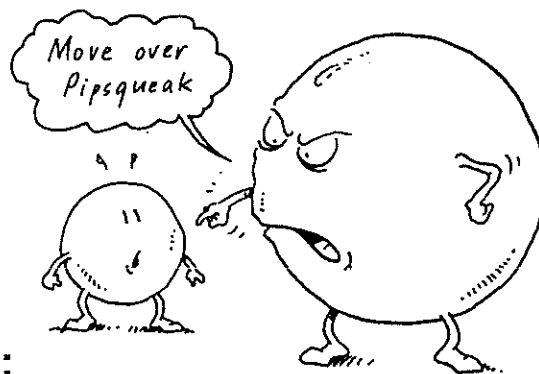


How Can You Compare Planet Sizes?

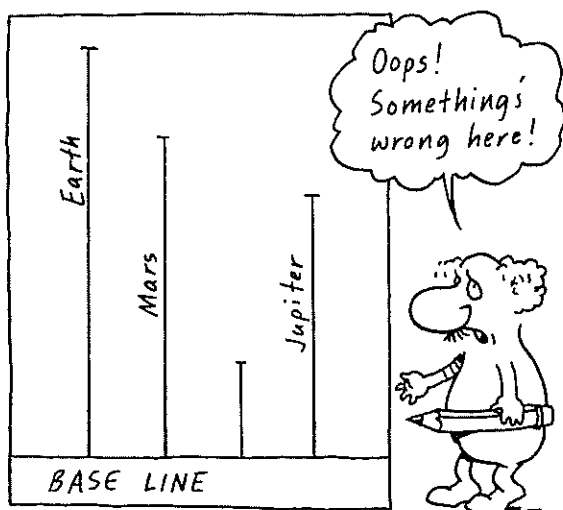


What you need:

- ruler
- pencil
- scrap paper
- piece of paper about 1 metre long
- compass
- extra large sheets of paper for circles

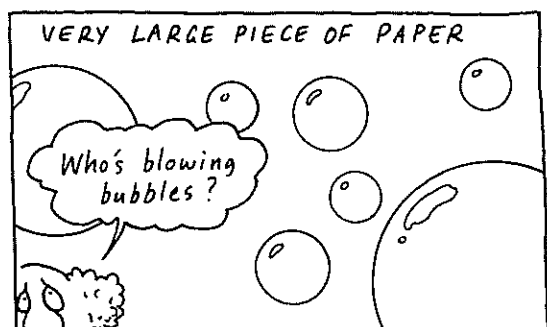
What you do:

- 1 Choose a FROZEN planet. On your piece of scrap paper, write its . . .
 - diameter
 - drop off the zeros (we don't want all those thousands)
 - divide it by 2 to get half its size
 - 1 km will now equal only 1 cm and there's your answer . . . so
- 2 Rule a line that long for your planet on the long piece of paper. Label it with the planet's name.
- 3 Do it all again for all of the planets. It could end up looking like this



Now For The Really Tricky Stuff

- 1 You've just represented the size of the planets with a line . . . now, can you represent each one with a circle?
- 2 Begin exactly the same way, but each km will equal only 1 mm.
- 3 Open your compass to the new measurement. (It's actually called the radius in this case.)
- 4 Use your compass to draw a circle on the large piece of paper. Leave room to draw eight more circles for all the planets.



Science Skill: Measuring